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Electrical & Electronics Abstracts

Science Abstracts Series B
January – June 1998

Subject Index (A–L)

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SIX-MONTHLY INDEXES TO ELECTRICAL & ELECTRONICS ABSTRACTS

Twice a year as part of their subscription to Electrical & Electronics Abstracts, subscribers receive cumulative indexes for the periods January-June and July-December. Each index is in two parts – a Subject Index, and an Author Index which comprises personal and corporate author indexes, and indexes to conferences and book titles. The List of Journals abstracted by INSPEC is also included with the July-December issue of the Author Index, while the supplement to that List is included with the January-June issue. Cumulative indexes for earlier years are also available: for details please see the inside back cover.

Subject index

The Subject index provides an alphabetical subject key to the articles included in the abstracts journal. Some general guidance on its use is given below:

1. Look in the index for the name of the specific subject in which you are interested. In most cases this name will be a heading in the index and you will find relevant articles under it. The majority of the subject headings fall into the following categories: property, phenomenon, substance or named objects, instrument, device, theory, method, process, application, event.

2. Occasionally you will be directed from the subject heading chosen to a different heading under which the relevant or additional articles are listed.

3. If you do not find the subject heading you first chose, try a more general heading.

4. Each entry under the heading relates to an article appearing in the abstracts journal and gives the serial number of that article in the journal, e.g. 12345 refers to abstract number 12345 for the period covered by the Index.

The language of the article, if it is not in English, is also indicated, e.g. quadratic stabilization by fuzzy control (*Japanese*) 19453.

Each entry starts with a Keyword or Keyphrase considered to be most relevant to the heading. On sorting these Keywords, the qualifying prefixes are usually ignored (e.g. α-brass, 5-sulphosalicylic, 31 Gygni, n-Ge are sorted under brass, sulphosalicylic, Cygni, Ge respectively).

There are three main Keyword lists: alphabetical A-Z, elementary particles, and chemical symbols (organic substances are written and not given as chemical formula). More than one Keyword list may be present under each subject heading.

For document on, say, 'photoemission of germanium' at least two access points 'photoemission' and 'germanium' are provided. Under the heading 'photoemission' the Keyword will be 'Ge' and under 'germanium' the Keyword will be 'photoemission'.

In a case like this, it is advisable and quicker to use the heading 'photoemission' and go straight to the chemical symbol list for 'Ge'.

Intermetallic compounds are indexed under the appropriate alloy headings. The chemical formula is used as Keyword. However, it is important to realise in searching the chemical symbol list that, at present, allows and intermetallic compounds are sorted separately. For example FeCo is sorted at the end of the Fe-list e.g. Fe-Al,... Fe-Co,... Fe-Si,... Fe-Si-B,... FeCo,... FeSi and so on in this order.

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Abbreviations and Acronyms

Abbreviations and acronyms are used in the modifiers in all INSPEC Cumulative Subject Indexes. Individual terms should be readily understood in the context of the subject headings. **Inorganic substances** are usually given by their chemical formulae. Iron, aluminium and gallium garnets appear in the formula lists as MIG, MAG and MGG (where M is metal element, e.g. YIG and YAG); (Pb,La)(Zr,Ti)O3 and Pb(Zr,Ti)O3 appear as PLZT and PZT; ZrF4-BaF2-LaF3-AlF3-NaF and ZrF4-BaF2-LaF3-AlF3-NaF-PbF2 appear as ZBLAN and ZBLANP. **Organic substances** including **liquid crystals** and **polymers** are not given as formulae but common abbreviations are used.

1D	one-dimensional
2D	two-dimensional
2DEG	2D electron gas
3D	three-dimensional
4GL	fourth generation language
A/D	analogue-to-digital
AAL	ATM adaptation layer
AAS	atomic absorption spectrometry(-oscopy)
ABC	aerial bundled cables/conductors *or* absorbing boundary condition
ABR	available bit rate
ABS	acrylonitrile-butadiene-styrene
AC	alternating current
ACD	automatic call distribution
ACEL	AC electroluminescent
ACI	adjacent channel interference
ACRT	accelerated crucible rotation technique
ACSR	aluminium conductor steel reinforced
ACT	acoustic charge transport
ACTS	Advanced Communication Technology Satellite *or* advanced communication technology and services
ACTV	advanced compatible television
ACV	air cushion vehicle
ADC	analogue-to-digital conversion
ADM	adaptive delta modulation
ADP	administrative data processing
ADPCM	adaptive differential PCM
ADS	automatic depressurisation system
ADSL	asymmetric digital subscriber line
ADTV	advanced definition television
AE	acoustic emission
AEA	American Electronics Association
AES	Auger electron spectra (-oscopy)
AF	audio-frequency
AFBC	atmospheric fluidised bed combustion
AFC	automatic frequency control
AFL	abstract family of languages
AFM	atomic force microscopy
AFMR	antiferromagnetic resonance
AFR	away from reactor (spent fuel storage)
AGB	asymptotic giant branch
AGC	automatic gain control
AGN	active galactic nucleus (nuclei)
AGR	advanced gas-cooled reactor
AGS	alternating gradient synchrotron
AGV	automatic guided vehicle
AHDL	analogue HDL
AHP	analytic hierarchy process
AI	artificial intelligence
AIC	adaptive interference canceller
AIN	advanced intelligent networks
ALARA	as low as reasonably achievable
ALE	atomic layer epitaxy *or* adaptive line enhancer
ALGOL	Algorithmic Language
ALS	Advanced Light Source
ALU	arithmetic logic unit
ALV	autonomous land vehicle
ALWR	advanced light water reactor
AM	air mass number *or* amplitude modulation
AM/FM	automated mapping/facilities management
AMLCD	active matrix liquid crystal display
AMPS	Advanced Mobile Phone System
AMPTE	Active Magnetospheric Particle Tracer Explorers
AMR	automatic meter reading
AMS	accelerator mass spectroscopy
AMTEC	alkali metal thermoelectric convertor
ANA	automatic network analyser
ANN	artificial neural network
ANOVA	analysis of variance
ANS	Advanced Neutron Source
ANSI	American National Standards Institute
AOI	automatic optical inspection
APACHE	Accelerator for Physics and Chemistry of Heavy Elements
APC	adaptive predictive coding
APCM	adaptive PCM
APCVD	atmospheric pressure CVD
APD	avalanche photodiode
APFIM	atom probe field ion microscopy
API	application programming interface
APK	amplitude phase keying
APL	A Programming Language
APS	Advanced Photon Source *or* appearance potential spectra (-oscopy)
APW	augmented plane wave
APWR	advanced pressurised water reactor
ARC	antireflection coating
ARET	accelerated reliability enhancement testing
ARINC	Aeronautical Radio Inc.
ARMA	autoregressive moving average
ARMAX	ARMA exogenous
ARPA	Advanced Research Projects Agency
ARPES	angle resolved photoemission spectra (-oscopy)
ARQ	automatic repeat request
ARROW	antiresonant reflecting optical waveguide
ART	adaptive resonance theory
ARUPS	angular resolved UPS
ASCII	American Standard Code for Information Interchange
ASD	adjustable speed drives
ASE	amplified spontaneous emission
ASIC	application-specific integrated circuit
ASIP	application-specific integrated processor
ASK	amplitude shift keying
ASPSK	antipodal Stokes parameters shift keying
ASQC	American Society of Quality Control

CNDO	complete neglect of differential overlap
CNF	conjunctive normal form
CNN	cellular neural net(work)
CNR	carrier-to-noise ratio
CNS	central nervous system
CO	central office
COB	chip-on-board
COBOL	Common Business Oriented Language
COCOMO	cost complexity model(ling)
COD	crack opening displacement
COFDM	coded orthogonal FDM
COG	chip-on-glass
COM	computer output to microform (fiche or film) *or* coupling of modes *or* Component Object Model
COMFET	conductivity-modulated FET
CORBA	Common Object Request Broker Architecture
CORDIC	coordinate rotation digital computer
COTS	commercial off-the-shelf
COVA	computer code validation
CP	charge, parity
CP-MAS	cross-polarisation MAS
CPA	coherent potential approximation *or* critical path analysis
CPC	compound parabolic concentrator
CPE	customer premises equipment
CPFSK	continuous phase FSK
CPM	continuous phase modulation *or* critical path method
CPN	coloured Petri net *or* customer premises network
CPS	coplanar strip(line)
CPSK	coherent phase shift keying
CPT	charge, parity, time
CPU	central processing unit
CPV	common pressure vessel
CPW	coplanar waveguide
CQPSK	coherent quadrature PSK
CRBR	Clinch River Breeder Reactor Project
CRC	cyclic redundancy check
CRCW	concurrent read, concurrent write
CRDA	control rod drop accident
CREW	concurrent read, exclusive write
CRMA	cyclic reservation multiple access
CRNL	Chalk River Nuclear Laboratories
CRO	cathode ray oscilloscope
CRSR	coherent resonant Stokes rotation
CRT	cathode ray tube
CS	coupled states
CSCW	computer supported cooperative work
CSI	current source invertor
CSM	continuous slowing down models
CSMA	carrier sense multiple access
CSMA/CD	CSMA with collision detection
CSP	channel substrate planar *or* communicating sequential processes *or* constraint satisfaction problem *or* chip-scale packaging
CSRS	coherent Stokes-Raman spectra (-oscopy)
CSS	contact start/stop
CSSB/AM	companded single-sideband AM
CSTR	continuous stirred tank reactor
CT	computerised tomography *or* current transformer
CT1/2/3	cordless telephony (of 1st, 2nd, 3rd generation)
CTD	charge transfer device
CTE	coefficient of thermal expansion
CTI	computer telephony integration
CTL	complementary-transistor logic
CTR	controlled thermonuclear reactor
CUT	circuit under test
CV	cataclysmic variable(s)
CVD	chemical vapour deposition
CVI	chemical vapour infiltration
CVSDM	continuously-variable slope delta modulation
CVT	chemical vapour transport
CW	continuous wave
CZ	Czochralski
D/A	digital-to-analogue
DAB	digital audio broadcasting
DAC	digital-to-analogue conversion
DACS	digital access and cross-connect system
DAD	digital audio disc
DAG	directed acyclic graph
DAI	distributed artificial intelligence
DAMA	demand assigned multiple access
DAQ	data acquisition
DARMA	deterministic autoregressive moving average
DARPA	Defense Advanced Research Projects Agency
DASD	direct access storage device
DAT	digital audio tape
DATAC	digital autonomous terminal access communication
DAW	dry active waste
DBMS	database management system
DBPSK	differential-binary phase-shift keying
DBR	distributed Bragg reflector
DBS	direct broadcasting by satellite
DC	direct current
DC-PBH	double-channel PBH
DCA	direct chip attach
DCA	dynamic channel allocation
DCE	distributed computing environment
DCEL	direct current electroluminescent
DCFL	direct-coupled FET logic
DCG	dichromated gelatin
DCLC	drift cyclotron loss cone (instability)
DCOM	Distributed Component Object Model
DCS	digital cross-connect system *or* digital cellular service (system) *or* distributed control system
DCT	discrete cosine transform
DCTL	direct-coupled transistor logic
DCVS	differential cascode voltage switch
DDC	direct digital control
DDE	dynamic data exchange
DDL	diode-diode logic
DDS	direct digital synthesis
DE	differential equation
DECENT	distribution of exact classical energy transfer
DECT	digital European cordless telephone (telecommunication)
DEDS	discrete event dynamic system
DEFT	density functional theory
DEM	digital elevation model(s)

DEMUX demultiplexer(-ing)
DENOX nitrogen oxides removal
DES data encryption standard
DESIRE diffusion enhanced silylating resist
DESY Deutsches Electron Synchrotron
DEVS discrete event system specification
DF Dirac-Fock
DFB distributed feedback
DFE decision feedback equaliser *or* design for environment
DFG difference frequency generation
DFM design for manufacture(-ability)
DFT discrete Fourier transform *or* design for testability
DFWM degenerate four-wave mixing
DGPS differential GPS
DH double heterostructure
DHBT double heterojunction bipolar transistor
DHF Dirac-Hartree-Fock
DHT discrete Hartley transform
DIAL differential-absorption lidar
DIBL drain induced barrier lowering
DIC digital integrated circuit
DIET desorption induced by electronic transitions
DIL dual-in-line
DIP dual in-line package
DIS deep inelastic scattering *or* distributed interactive simulation
DITE Divertor in Torus Experiment
DLA diffusion limited aggregation
DLC diamond-like carbon
DLL dynamic link library
DLMS delayed least mean squares
DLTS deep level transient spectra (-oscopy)
DM delta modulation
DMA direct memory access
DMC dynamic matrix control
DMD digital micromirror
DMM digital multimeter
DMOS double-diffused metal-oxide-semiconductor
DMSK differential minimum shift keying
DMSO dimethylsulphoxide
DMU decision-making unit
DNA deoxyribonucleic acid *or* Digital Network Architecture
DNF disjunctive normal form
DNMR double nuclear magnetic resonance
DNS domain name system
DNTS digital data exchange network testing system
DOA direction of arrival
DOBAMBC p-decyloxybenzylidene p'-amino 2-methyl butyl cinnamate
DoD Department of Defense (USA)
DOE Department of Energy (USA) *or* design of experiments *or* diffractive optical element
DOF degree(s) of freedom
DOPSK differential offset phase shift keying
DORIS Doppel-Ring-Speicher
DOS disc operating system *or* density of states
DOVETT double velocity transit time
DOX design of experiments
DP data processing
DPCM differential PCM
DPDA deterministic pushdown automaton
DPLL digital phase locked loop
DPOAE distortion product otoacoustic emission
DPPC dipalmitoyl phosphatidyl chloride
DPPH diphenylpicrylhydrazyl
DPS distributed parameter system
DPSK differential phase shift keying
DQDB distributed queue dual bus
DQPSK differential quadrature PSK
DRAM dynamic RAM
DRO dielectric resonator oscillator
DS-SS direct sequence spread spectrum
DS-SSMA direct sequence SSMA
DSA digital subtraction angiography
DSAM Doppler shift attenuation method
DSB double sideband
DSC differential scanning calorimetry
DSF dispersion shifted fibre
DSI digital speech interpolation
DSL digital subscriber line
DSM demand side management
DSO digital storage oscilloscope
DSP digital signal processor (-ing)
DSS decision support system *or* digital subscriber signalling
DTA differential thermal analysis
DTL diode transistor logic
DTMF dual tone multi-frequency
DTP desktop publishing
DTPP Demonstration Tokamak Power Plant
DTU dual topological unitarisation
DUT device under test
DUV deep ultraviolet
DV-Xα discrete variational Xα
DVD digital versatile disc
DVD digital video disc
DVI digital video interactive
DVM digital voltmeter
DWBA distorted wave Born approximation
DWDM dense WDM (multiple access)
DWIA distorted wave impulse approximation
DWPF Defence Waste Processing Facility
E/D enhancement-/depletion-mode
E1 electric dipole
E2 electric quadrupole
E2PROM electrically erasable PROM
EAROM electrically alterable ROM
EAS extensive air shower
EAX electronic automatic exchange
EB exponential Born
EBBA 4-ethoxybenzylidene-4n-butylaniline
EBIC electron beam induced current(s)
EBIS electron beam ion source
EBIT electron beam ion trap
EBL explanation-based learning
EBR experimental breeder reactor
EBT Elmo Bumpy Torus
EBU European Broadcasting Union
ECA event-condition-action
ECALE electrochemical atomic layer epitaxy
ECC emergency core cooling *or* error correction code
ECCM electronic counter-counter measures
ECCS emergency core cooling system

ECELR	Epithermal Critical Experiment Laboratory Reactor
ECG	electrocardiography (-gram)
ECL	emitter coupled logic
ECM	electronic countermeasures
ECMWF	European Centre for Medium Range Weather Forecasts
ECoG	electrocortiography (-gram)
ECR	electron cyclotron resonance
ECRH	electron cyclotron resonance heating
EDA	ethylene diamine *or* electronic design automation
EDAX	energy-dispersive X-ray analysis
EDF	Electricité de France
EDFA	erbium-doped fibre amplifier
EDI	electronic data interchange
EDIF	electronic data interchange format
EDM	electrical discharge machining
EDP	electronic data processing
EDS	energy dispersive spectra(-oscopy)
EDTA	ethylene diamine tetra-acetic acid
EDTV	extended definition TV
EDW	electron density wave
EDX	energy-dispersive X-ray
EEG	electroencephalography (-gram)
EELFS	electron energy loss fine structure
EELS	electron energy loss spectra (-oscopy)
EEPLD	electrically erasable PLD
EEPROM	electrically erasable PROM
EFG	edge-defined film fed growth
EFIE	electric field integral equation
EFL	emitter-follower logic *or* emitter function logic
EFM	extended Flygare method
EFT	electronic funds transfer
EGA	Enhanced Graphics Adaptor
EGG	electrogastrography (-gram)
EHD	electrohydrodynamics
EHDTV	enhanced high-definition TV
EHF	extremely high frequency
EHP	electron-hole potential method
EHT	extended Huckel theory *or* extra high tension
EHV	extra high voltage
EIA	Electronic Industries Association
EIRP	equivalent isotropically radiated power
EIS	electrochemical impedance spectroscopy
EISA	extended Industry Standard Architecture
EKF	extended Kalman filter
EKG	electrokymography (-gram)
EL	electroluminescent(-ence)
ELDOR	electron electron double resonance
ELF	extremely low frequency
ELO	epitaxial lateral overgrowth
EM	electromagnetic *or* expectation maximisation
EMC	electromagnetic compatibility *or* European Muon Collaboration
EMF	electromotive force
EMG	electromyography (-gram)
EMI	electromagnetic interference
EMP	electromagnetic pulse
EMS	energy management system
EMTP	electromagnetic transients program
ENDOR	electron nuclear double resonance
ENEL	Ente Nazionale per l'Energia Elettrica (Italian National Electric Energy Agency)
ENG	electronic news gathering
ENSO	El Nino - Southern Oscillation
EOF	end-of-file
EOG	electrooculography (-gram)
EOQ	economic order quantity
EOS	electrical overstress
EPA	Environmental Protection Agency (USA)
EPDM	ethylene propylene diene monomer
EPLD	electrically programmable logic device
EPMA	electron probe microanalysis
EPR	Einstein-Podolsky-Rosen *or* electron paramagnetic resonance *or* ethylene propylene rubber *or* European Pressurised water Reactor
EPRI	Electric Power Research Institute
EPROM	erasable PROM
ER	electrorheology(-ical)
ER	entity-relationship
ERBE	Earth Radiation Budget Experiment
ERDA	elastic recoil detection analysis
ERG	electroretinography (-gram)
ERP	effective radiated power
ES	expert system
ESA	European Space Agency
ESCA	electron spectroscopy for chemical analysis
ESCAR	Experimental Superconducting Accelerating Ring
ESD	electron stimulated desorption *or* electrostatic discharge
ESDIAD	electron stimulated desorption ion angular distributions
ESF	engineering safety features
ESM	electronic support measures
ESOC	European Space Operations Centre
ESP	electrostatic precipitators
ESPI	electronic speckle pattern interferometry
ESPRIT	estimation of signal parameters by rotational invariance techniques *or* European Strategic Programme for Research in Information Technology
ESR	electron spin resonance *or* equivalent series resistance
ESS	electronic switching system *or* environmental stress screening
ESTELLE	Extended State Transition Language
ET	bis(ethylenedithio)-tetrathiafulvalene
ETA-II	Engineering Test Accelerator-II
ETACS	Extended Total Access Communications System
ETM	engineering test model
ETSI	European Telecommunications Standards Institute
ETV	enhanced TV
EU	European Union
EUT	equipment under test
EUV	extreme ultraviolet
EV	electric vehicle
EW	electronic warfare
EX-OR	exclusive OR (logic)
EXAFS	extended X-ray absorption fine structure
F-N	Fowler-Nordheim
FACTS	flexible AC transmission system

FAMOS	floating gate avalanche MOS
FBC	fluidised bed combustion
FBG	fibre Bragg grating
FBL	fly-by-light
FBR	fast breeder reactor
FCC	face centred cubic *or* Federal Communications Commission (USA)
FCFS	first come first served
FCI	fuel-cladding interaction
FCOB	flip chip on board
FCT	field-controlled thyristor
FDD	floppy disc drive *or* frequency division duplex
FDDI	fibre distributed data interface
FDM	frequency division multiplex(ing)
FDMA	frequency division multiple access
FDNC	frequency dependent negative conductance
FDNR	frequency dependent negative resistance
FDTD	finite difference time-domain
FDTS	fixed delay tree search
FEA	finite element analysis *or* field emitter array
FEC	forward error correction
FECFET	floated electron channel FET
FECL	feedback ECL
FED	Fusion Engineering Device (USA) *or* field emission display
FEDC	Fusion Engineering Device Centre (USA)
FEL	free electron laser
FEM	field emission microscopy *or* finite element method
FER	Fusion Experimental Reactor (Japan) *or* frame error rate
FES	functional electrical stimulation
FET	field effect transistor
FFH	fast frequency hopping
FFHR	fusion-fission hybrid reactor
FFT	fast Fourier transform
FFTF	Fast Flux Test Facility
FGD	flue gas desulphurisation
FH-SS	frequency hopped spread spectrum
FH-SSMA	frequency hopped SSMA
FHNC	Fermi hypernetted chain
FIB	focused ion beam
FIFO	first in, first out
FIM	field ion microscopy
FIMOS	floating gate ionisation injection metal-oxide-semiconductor
FIPOS	full isolation by porous oxidised silicon
FIR	far infrared *or* finite impulse response
FISO	fast in, slow out
FITL	fibre in the loop
FLC	ferroelectric liquid crystal
FLCD	ferroelectric liquid crystal display
FLIR	forward looking infra-red
FLL	frequency locked loop
FLOPS	floating point operation(s) per second
FLOTOX	floating-gate tunnel oxide
FM	frequency modulation
FMEA	failure mode and effects analysis
FMECA	failure modes effects and criticality analysis
FMIT	Fusion Materials Irradiation Test Facility
FMR	ferromagnetic resonance
fMRI	functional magnetic resonance imaging
FMS	flexible manufacturing system *or* flight management system
FOG	fibre optic gyroscope
FORTRAN	Formula Translation (language)
FOV	field of view
FP	functional programming
FPA	focal plane array
FPC	fusion power core
FPD	flat panel display
FPGA	field programmbale gate array
FPLA	field programmable logic array
FPLMTS	future public land mobile telecommunication system
FPT	finite perturbation theory
FQHE	fractional quantum Hall effect
FRAM	ferroelectric random access memory
FRED-FET	fast recovery epitaxial diode FET
FRMR	field reversed mirror reactor
FROG	frequency resolved optical gating
FSDE	fission suppressed direct enrichment (breeder blanket)
FSGO	floating spherical Gaussian orbitals
FSK	frequency-shift keying
FSM	finite state machine
FSS	fixed satellite service *or* frequency selective surface
FT	Fourier transform
FTIR	Fourier transform infrared *or* frustrated total internal reflection
FTP	File Transfer Protocol
FTR	Fast Test Reactor
FTTB	fibre-to-the-building
FTTÇ	fibre-to-the-curb
FTTH	fibre-to-the-home
FWHM	full width half maximum
FWM	four wave mixing
GA	genetic algorithm
GAMBIT	gate modulated bipolar transistor
GANIL	Grand Accelerateur National à Ions Lourds
GASH	guanidine aluminium sulphate hexahydrate
GCB	gas circuit breakers
GCC	gasification combined cycle
GCFR	gas-cooled fast breeder reactor
GCHWR	gas cooled heavy water moderated reactor
GCM	general circulation model *or* generator coordinate method
GCR	group code recording
GDR	giant dipole resonance
GDSS	group decision support system
GEO	geostationary orbit
GETR	General Electric Test Reactor
GF	Galois field
GFSK	Gaussian frequency shift keying
GHF-NO-CI	generalised Hartree-Fock/natural orbital/configuration interactions
GIAO	gauge-invariant atomic orbitals
GIC	generalised immittance convertor *or* graphite intercalation compound *or* geomagnetically induced currents
GIDL	gate induced drain leakage
GIF	graphical image format

GIS	gas insulated system (substation or switchgear) *or* geographic information system
GITL	gas insulated transmission line
GKS	Graphical Kernel System
GLONASS	Global Orbiting Navigation Satellite System
GMA	gas metal arc
GMDH	group method of data handling
GMDSS	Global Maritime Distress and Safety System
GMR	giant monopole resonance
GMSK	Gaussian filtered MSK
GNSS	Global Navigation Satellite System
GO	Gaussian orbitals *or* geometrical optics
GP	Guinier-Preston
GPC	generalised predictive control
GPED	gas phase electron diffraction
GPIB	general purpose interface bus
GPM	ground potential model
GPS	Global Positioning System
GQR	giant quadrupole resonance
GR	general relativity
GRIN	graded (gradient) refractive index
GRINSCH	gradient index separate confinement heterostructure
GSM	global system for mobile communications *or* Groupe Speciale Mobile
GSMBE	gas source molecular beam epitaxy
GSPC	gas scintillation proportional chamber (counter)
GT	group technology
GTD	geometrical theory of diffraction
GTHTGR	gas turbine HTGR
GTO	gate turn-off *or* Gaussian-type orbitals
GUI	graphical user interface
GUT	grand unified theory
GVB	generalised valence bond
HALT	highly accelerated life test(ing)
HASL	hot air solder levelling
HASS	highly accelerated stress screening
HAST	highly accelerated stress test(ing)
HAWT	horizontal axis wind turbines
HB	horizontal branch
HBM	human body model
HBS	home bus system
HBT	heterojunction bipolar transistor *or* N-(p-hexyloxybenzylidene)-p-toluidene
HCDA	hypothetical core disruptive accident
HCI	human-computer interaction
HCMOS	high-speed complementary MOS
HCP	hexagonal close packed
HCSEL	horizontal cavity surface emitting laser
HD-MAC	high-definition MAC
HD-VCR	high-definition VCR
HDD	hard disc drive
HDDR	hydrogenation disproportionation desorption recombination
HDI	high-density interconnect
HDL	hardware description language
HDLC	high-level data link control
HDM	hot dark matter
HDMI	high-density multichip interconnect
HDPE	high-density polyethylene
HDSL	high bit-rate digital subscriber lines
HDTV	high-definition television
HEED	high-energy electron diffraction
HeLa	Henrietta Lacks
HEMP	high-altitude electromagnetic pulse
HEMT	high electron mobility transistor
HET	hot electron transistor
HEU	highly enriched uranium (93% U235)
HEU/Th	highly enriched U/Th fuel
HEXFET	hexagonal MOSFET
HF	Hartree-Fock *or* high-frequency
HFC	hybrid fibre coax
HFEF	Hot Fuel Examination Facility
HFET	heterojunction FET
HFIR	high flux isotope reactor
HFITR	High Field Ignition Test Reactor
HFS	Hartree-Fock-Slater *or* hyperfine structure
HGMS	high-gradient magnetic separation
HI	heavy ion
HID	high-intensity discharge
HIFET	heterointerface FET
HIGFET	heterostructure insulated gate FET
HIP	hot isostatic pressing
HIPERLAN	high-performance (radio) LAN
HIPPI	high-performance parallel interface
HIRF	high-intensity radiated fields
HIS	hospital information system
HIXE	heavy ion induced X-ray emission
HJBT	heterojunction bipolar transistor
HJFET	heterojunction FET
HLL	high-level language
HLLW	high-level liquid waste
HLW	high-level waste
HMC	hidden Markov chain
HMD	helmet mounted display
HMM	hidden Markov model
HMO	Huckel molecular orbitals
HMOS	high-performance metal-oxide-semiconductor
HMTSeF	hexamethylenetetraselenafulvalene (-inium)
HMTTF	hexamethyltetrathiofulvalene (-inium)
HOAB	heptyloxyazoxybenzene
HOE	holographic optical elements
HOMO	highest occupied molecular orbitals
HOPG	highly oriented pyrolytic graphite
HOS	higher order statistics
HPCI	high-pressure coolant injection
HPCS	high-pressure core sprays
HPF	High Performance FORTRAN
HREELS	high-resolution EELS
HREM	high-resolution electron microscopy
HRSG	heat recovery steam generator
HRV	heart rate variability
HSLA	high-strength low alloy (steel)
HSLAN	high-speed LAN
HST	Hubble Space Telescope
HT	high tension
HTGR	high-temperature gas-cooled reactor
HTGRSC/C	HTGR steam cycle cogeneration
HTML	Hypertext Markup Language
HTSC	high-temperature superconductor
HTTP	Hypertext Transfer Protocol
HTTR	High-Temperature Engineering Test Reactor
HUD	head-up display
HV	high voltage

HVAC	heating, ventilation and air conditioning *or* high-voltage alternating current
HVDC	high-voltage direct current
HVEM	high-voltage electron microscopy
HVIC	high-voltage integrated circuit
HWIR	hardware-in-the-loop
HWLWR	heavy water moderated LWR
HWR	heavy water reactor
HZE	high Z and energy
HZP	hot zero power
I-FOG	interferometric fibre-optic gyroscope
I-V	current-voltage
i.i.d.	independently identically distributed
I/O	input/output
I^2L	integrated injection logic
I^3L	isoplanar I^2L
IAEA	International Atomic Energy Agency
IAR	isobaric analogue resonance
IAS	isobaric analogue state
IBA	interacting boson approximation
IBAD	ion beam assisted deposition
IBCN	integrated broadband communication network
IBFA	interacting boson-fermion approximation
IBM	interacting boson model *or* International Business Machines
IBPBAC	isobutyl-4-(4'-phenylbenzylidene-amino) cinnamate
IBT	insulated base transistor
IC	integrated circuit
ICA	independent component analysis
ICAM	integrated computer-assisted manufacturing
ICB	ionised cluster beam
ICDF	intermediate coupling Dirac-Fock
ICE	in-circuit emulator
ICF	inertial confinement fusion
ICMA	idle signal casting multiple access
ICP	inductively coupled plasma
ICPP	Idaho Chemical Processing Plant
ICRF	ion cyclotron range of frequencies
ICRH	ion cyclotron resonance heating
ICTS	isothermal capacitance transient spectra(-oscopy)
ICU	intensive care unit
IDDQ	quiescent power supply current
IDEF	ICAM definition
IDFL	integral diode FET logic
IDT	interdigital transducer
IDTV	improved definition television
IEC	interexchange carrier *or* International Electrotechnical Commission
IEE	Institution of Electrical Engineers
IEEE	Institute of Electrical and Electronics Engineers
IEPA	independent electron pair approximation
IES	Institute of Environmental Sciences
IETS	inelastic electron tunnelling spectra (-oscopy)
IF	intermediate-frequency
IFA	ionisation front accelerator
IFE	intelligent front end
IFF	identification friend or foe
IFIP	International Federation for Information Processing
IFM	instantaneous frequency measurement
IFS	iterated function system
IGBT	insulated gate bipolar transistor
IGCC	integrated gasification combined cycle
IGES	Initial Graphics Exchange Specification
IGFET	insulated gate FET
IGT	insulated gate transistor
IHEP	Institute of High Energy Physics
IIR	infinite impulse response
IKBS	intelligent knowledge-based system
IKO	Institute v. Kernph Ouder (Amsterdam)
ILD	interlayer dielectric
ILP	inductive logic programming
ILS	instrument landing system
ILW	intermediate level (radioactive) waste
IM	induction motor
IM-DD	intensity modulated direct detection
IMA	integrated modular avionic
IMAPS	International Microelectronics and Packaging Society
IMD	intermodulation distortion
IMPATT	impact avalanche transit time
IN	intelligent network
INDO	incomplete neglect of differential overlap
INDOR	internuclear double resonance
INEPT	insensitive nuclei enhanced by polarisation transfer
ING	intense neutron generator
INO	iterative natural orbital
INS	inertial navigation system *or* Information Network System
INSPEC	Information Services for the Physics and Engineering Communities
INTELSAT	International Telecommunications Satellite Consortium
INTOR	International Tokamak Reactor
INTUG	International Trade and User Group
IOCω	inclusion of the overlap charges in the omega
IP	Internet Protocol
IPC	Institute for Interconnecting and Packaging Electronic Circuits
IPSE	integrated programming support environment *or* integrated project support environment
IPSS	international packet switching system
IR	infrared
IRBIC	infrared beam induced current(s) (contrast)
IREB	intense relativistic electron beam
IRED	infrared emitting diode
IRFPA	infrared focal plane array
IRQ	interrupt request
IRS	information retrieval system
IS	information system
ISA	Industry Standard Architecture *or* Instrument Society of America
ISAR	inverse synthetic aperture radar
ISDN	integrated services digital network
ISDSN	integrated services digital satellite network
ISFET	ion-sensitive FET
ISHM	International Society for Hybrid Microelectronics
ISI	intersymbol interference
ISL	integrated Schottky logic *or* inter-satellite link
ISM	industrial, scientific and medical

ISM	interstellar medium
ISO	International Standards Organization
ISP	Internet service provider
ISPBX	integrated services PBX
ISR	intersecting storage ring
ISS	ion scattering spectroscopy
ISX	impurity study experiment
IT	information technology
ITC	ionic thermocurrents
ITEP	Institute of Theoretical and Experimental Physics
ITO	indium tin oxide
ITOX	internal thermal oxidation
ITR	Ignition Test Reactor
ITU	International Telecommunication Union
IU	Indiana University (USA)
IVHS	intelligent vehicle highway system
IVO	improved virtual orbitals
IVP	initial value problem
J^{π}	spin/parity (nuclear levels)
JAERI	Japan Atomic Energy Research Institute
JANET	Joint Academic Network
JCL	job control language
JEDEC	Joint Electronic Device Engineering Council
JET	Joint European Torus
JFET	junction FET
JINR	Joint Institute for Nuclear Research
JIT	just in time
JPEG	Joint Photographic Experts Group
JSD	Jackson system development
JT-60	Japanese Tokamak-60
JTAG	Joint Test Action Group
JTC	joint transform correlator
JTIDS	Joint Tactical Information Distribution System
KADS	knowledge acquisition and design structuring
KBS	knowledge-based system
KDD	knowledge discovery in databases
KdV	Korteweg-de Vries
KEK	Japan National Laboratory for High Energy Physics
KGD	known good die
KKR	Korringa-Kohn-Rostoker
LAAS	local-area augmentation system
LAMPF	Los Alamos Meson Physics Facility
LAN	local-area network
LATA	local access and transport area
LAWN	local-area wireless network
LB	Langmuir-Blodgett
LBIC	light beam induced current(s)
LBLOCA	large break LOCA
LC	inductance-capacitance
LCA	logic cell array
LCAO	linear combination of atomic orbitals
LCBO	linear combinations of (semi-localised) band orbitals
LCC	leadless chip carrier
LCCC	leadless ceramic chip carrier
LCD	liquid crystal display/device
LCI	load commutated inverter
LCP	Large Coil Program *or* least cost planning
LCTF	Large Coil Test Facility
LCTV	liquid crystal television
LD	laser diode
LDA	laser Doppler anemometry (-meter) *or* local density approximation
LDD	lightly doped drain
LDI	lossless discrete integrator
LDMOS	lateral double-diffused metal oxide semiconductor
LDPE	low density polyethylene
LDV	laser Doppler velocimetry (-meter)
LEAR	Low Energy Antiproton Ring
LEC	liquid encapsulated Czochralski *or* local exchange carrier
LED	light emitting diode
LEED	low energy electron diffraction
LEFD	Large Experimental Fusion Device
LEIS	low energy ion scattering
LEMP	lightning electromagnetic pulse
LEO	low-Earth orbit
LEP	Large Electron Positron (CERN)
LET	linear energy transfer
LEU	low enrichment uranium (10% U235)
LEU/Th	low enrichment U/Th fuel
LF	low-frequency
LFSR	linear feedback shift register
LGA	land grid array
LHC	Large Hadron Collider (CERN)
LHPG	laser heated pedestal growth
LHRH	lower hybrid resonance heating
LIF	laser induced fluorescence
LIFO	last in, first out
LIGA	lithography galvanoformung abformung
LIM	linear induction motor
LIME	laser induced magnetically enhanced
LINAC	linear accelerator
LIS	laboratory information system
LIS	library information system
LISP	List Processor (language)
LLTR	Large Leak Test Rig
LLW	low level (radioactive) waste
LMC	Large Magellanic Cloud
LMDS	local multipoint distribution system
LME	liquid metal embrittlement
LMFBR	liquid metal fast breeder reactor
LMI	linear matrix inequalities
LMIS	liquid metal ion source
LMR	liquid metal reactor *or* land mobile radio
LMS	least mean square(s) *or* land mobile satellite
LMSS	land mobile satellite system
LMTO	linear combination of muffin tin orbitals
LMXB	low-mass X-ray binary
LNA	low noise amplifier
LNB	low noise block
LNG	liquified natural gas
LO	local oscillator *or* longitudinal optical
LOCA	loss of coolant accident
LOCE	loss of coolant experiment
LOCOS	local oxidation of silicon
LOF	loss of flow
LOFT	Loss of Flow Test Facility
LOFW	loss of feed water
LOLP	loss of load probability
LONA	low noise amplifier
LOOSP	loss of onsite power
LOS	line of sight *or* loss of signal
LOTOS	Language Of Temporal Ordering Specification

LP	linear programming
LPC	linear predictive coding
LPCS	low pressure core spray
LPCVD	low pressure CVD
LPE	liquid phase epitaxy
LPEE	liquid phase electroepitaxy
LPFL	low pinchoff-voltage FET logic
LPI	low probability of intercept *or* liquid photoimageable
LQ	linear quadratic
LQG	linear quadratic Gaussian
LRO	long-range order
LSA	least squares approximation *or* limited space charge accumulation
LSB	least significant bit
LSD	local spin density *or* loop shut-down
LSI	large-scale integration
LSP	line spectrum pair
LSPB	Large Scale Prototype Breeder
LSSD	level sensitive scan design
LSTF	Large Scale Test Facility
LTE	local thermodynamic equilibrium
LTI	linear time invariant
LTR	loop transfer recovery
LUMO	lowest unoccupied molecular orbitals
LV	low voltage *or* left ventricle
LW	long-wave
LWBR	light water breeder reactor
LWHCR	light water high convertor reactor
LWIR	long-wavelength infrared
LWR	light water reactor
M-QAM	multilevel QAM
M1	magnetic dipole
M2	magnetic quadrupole
MAC	multiplexed analogue components *or* media access control
MAG	metal arc gas
MAGFET	magnetic field sensitive FET
MAGLEV	magnetic levitation
MAI	multiple access interference
MAN	metropolitan-area network
MAP	Manufacturing Automation Protocol *or* maximum a posteriori *or* medium access protocol
MARC	machine readable catalogue
MARS	Mirror Advanced Reactor Study
MAS	magic angle spinning
MATE	modular automatic test equipment
MBBA	4-methoxybenzylidene-4'n-butylaniline
MBC	meteor burst communication
MBE	molecular beam epitaxy
MBPT	many body perturbation theory
MBR	model-based reasoning
MCCB	moulded-case circuit breakers
MCCI	molten core-concrete interaction
MCD	magnetic circular dichroism
MCFC	molten carbonate fuel cell
MCFR	magnetic confinement fusion reactor
MCM	multichip module *or* multicarrier modulation
MCP	microchannel plate
MCSCF	multiconfiguration SCF
MCVD	modified chemical vapour deposition
MCXα	multiconfiguration Xα
MDS	maximum distance separable
MEC	molecular electron correlation(s)
MEG	magnetoencephalography (-gram)
MEI	measured equation of invariance
MEMS	microelectromechanical system
MERIE	magnetically enhanced reactive ion etching
MESFET	metal-semiconductor FET
MEU	medium enrichment uranium (20% U235)
MEU/Th	medium enrichment U/Th fuel
MF	medium-frequency
MFIE	magnetic field integral equation
MFM	magnetic force microscopy
MFP	mean free path
MFQ	maximally flat quadratic
MFR	mirror fusion reactor
MFSFET	metal-ferroelectric-semiconductor FET
MFSK	multiple frequency shift keying
MFTF	Mirror Fusion Test Facility
MHD	magnetohydrodynamics
MHEG	Multimedia and Hypermedia Experts Group
MHS	message handling system
MHTGR	modular HTGR
MIC	microwave integrated circuit
MID	magnetically insulated diode *or* moulded interconnect device
MIDI	musical instrument digital interface
MIDP	microwave induced delayed phosphorescence
MIG	metal inert gas *or* metal-in-gap
MIL-STD	military standard
MIM	metal-insulator-metal
MIMD	multiple input (instruction), multiple data
MIMIC	millimetre-wave monolithic integrated circuit
MIMO	multiple input, multiple output
MIN	multiprocessor interconnection network
MIND	mass impregnated non-draining
MINDO	modified incomplete NDO
MIPS	million instructions per second
MIS	management information system *or* metal-insulator-semiconductor
MISFET	metal-insulator-semiconductor FET
MISO	multiple input, single output
MIT	Massachusetts Institute of Technology (USA)
MITATT	mixed tunnelling avalanche transit time
ML	Martin-Löf
ML-EM	maximum likelihood expectation maximization
MLB	multilayer board
MLC	multilayer ceramic
MLE	maximum likelihood estimation
MLE	molecular layer epitaxy
MLP	multilayer perceptron
MLS	microwave landing system *or* multi-level secure
MLSE	maximum likelihood sequence estimation
MLTF	multilayer thick film
MLW	medium level (radioactive) waste
MM	millimetre
MMDS	multichannel microwave distribution system
MMF	magnetomotive force *or* multimode fibre
MMI	man-machine interface
MMIC	monolithic microwave integrated circuit
MMSE	minimum mean squared error

MMU	memory management units
MNDO	modified neglect of differential overlap
MNOS	metal-nitride-oxide-semiconductor
MO	molecular orbitals
MOCVD	metal-organic chemical vapour deposition
MODFET	modulation doped FET
MODOR	microwave-optical double resonance
MODPOT	modulator potential
MOKE	magneto-optical Kerr effect
MOMBE	metal-organic MBE
MONOS	metal-oxide-nitride-oxide-semiconductor
MOPA	master oscillator power amplifier
MORB	mid-ocean ridge basalt
MOS	metal-oxide-semiconductor
MOSFET	metal-oxide-semiconductor FET
MOSIS	metal oxide semiconductor implementation service
MOST	metal-oxide-semiconductor transistor
MOV	metal oxide varistor
MOVPE	metal-organic vapour phase epitaxy
MOX	mixed oxide fuel
MPEG	Moving Picture Experts Group
MPH	moving plasmoid heater
MPI	Message Passing Interface
MPP	massively parallel processing
MPPT	maximum power point tracking
MPSK	multiple phase shift keying
MPU	microprocessing unit
MQORC	modified quadrature overlapped raised cosine
MQW	multiple quantum well
MR	magnetoresistive
MRAC	model reference adaptive control
MRC	minimum resolvable contrast
MRD	multiple-reference double excitation
MRI	magnetic resonance imaging
MRINDO	modified Rydberg INDO
MRP	manufacturing resources planning *or* materials requirements planning
MRS	monitored retrievable storage (radioactive waste) *or* magnetic resonance spectroscopy
MRT	minimum resolvable temperature
MS	management science
MSB	most significant bit
MSE	mean square error
MSGD	micro-strip gas detector
MSI	medium scale integration
MSK	minimum shift keying
MSM	metal-semiconductor-metal
MSR	molten salt reactor
MSS	mobile satellite system
MSSM	minimal supersymmetric standard model
MSSW	magnetostatic surface wave
MSU	Michigan State University
MSW	magnetostatic waves
MSXα	multiple scattering Xα
MT	machine translation *or* magnetotelluric
MTBF	mean time between failures
MTF	modulation transfer function
MTI	moving target indicator
MTL	merged-transistor logic
MTR	maximum transition run-length
MTTF	mean time to failure
MTTR	mean time to repair
MTXα	muffin-tin Xα
μ-TAS	micro total analysis system
μ CF	muon-catalysed fusion
μ P	microprocessor
μ SR	muon spin rotation (resonance)
MUF	material unaccounted for *or* maximum usable frequency
MUMPS	Multi-User Multi-Programming System
MUSE	multiple sub-Nyquist sampling encoding
MUSIC	multiple signal characterisation
MUX	multiplexer(-ing)
MV	medium voltage
MVDR	minimum variance distortionless response
MVDS	multipoint video distribution system
MVTL	modified variable threshold logic
MWIR	mid-wavelength infrared
MWPC	multiwire proportional chamber
NA	numerical aperture
NAA	neutron activation analysis
NAL	National Accelerator Laboratory
NAND	NOT-AND (logic)
NAPLPS	North American Presentation Level Protocol Syntax
NASA	National Aeronautics and Space Administration
NASICON	sodium zirconium silicate phosphate
NATO	North Atlantic Treaty Organisation
NAVSTAR	Navigational Satellite Timing and Ranging
NBETF	Neutral Beam Engineering Test Facility
NBFM	narrowband frequency modulation
NBI	neutral beam injection
NBPS	neutral beam power systems
NC	numerical control
NCAR	National Center for Atmospheric Research (USA)
NCBR	nitrine cooled breeder reactor
NCMET	non-closed shell many electron theory
NCSL	National Conference of Standards Laboratories
NDDO	neglect of diatomic differential overlap
NDE	nondestructive evaluation
NDO	neglect of differential overlap
NDR	negative differential resistance
NDRO	nondestructive readout
NDSF	non-dispersion-shifted fibre
NDT	nondestructive testing
NEA	negative electron affinity
NEC	National Electric Code
NEMA	National Electrical Manufacturers Association
NET	Next European Tokamak
NETD	noise equivalent temperature differential
NEXAFS	near-edge X-ray absorption fine structure
NEXT	near-end crosstalk
NGS	nuclear generating station
NHS	National Health Service (UK)
NIC	negative impedance convertor
NICAM	near-instantaneously companded audio multiplex
NIR	near infrared
NIST	National Institute of Standards and Technology (USA)
NLC	nematic liquid crystal
NLMS	normalised least mean square(s)
NLP	natural language processing
NLTE	non-local thermodynamic equilibrium
NMOS	n-channel MOS

NMR	nuclear magnetic resonance
NMR-ON	NMR on oriented nuclei
NMRR	normal-mode rejection ratio
NMS	network management system
NNI	network node interface
NNNDO	neglect of non-neighbour differential overlap
NOAA	National Oceanic and Atmospheric Administration (USA)
NOFC	New Oxide Fuels Complex (BNFL)
NOR	NOT-OR (logic)
NOVA	nonoverlapping super-self-aligned
NOW	network of workstations
NP	nondeterministic polynomial
NPL	National Physical Laboratory (UK)
NPP	nuclear power plant
NQR	nuclear quadrupole resonance
NRC	Nuclear Regulatory Commission (USA)
NRD	nonradiative dielectric
NRM	natural remanent magnetisation
NRZ	non-return to zero
NRZI	NRZ inverted
NS	Navier-Stokes (equations)
NSLS	National Synchrotron Light Source
NSPUDT	natural single phase unidirectional transducer
NSRR	Nuclear Safety Research Reactor
NSSS	nuclear steam supply system
NTC	negative temperature coefficient
NTD	neutron transmutation doping
NTE	network termination equipment
NTL	nonthreshold logic
NTSC	National Television Standards Committee *or* National Television Systems Committee
NTT	Nippon Telegraph and Telephone
NTU	network termination unit
NURBS	non-uniform rational B-spline
NVL	night vision laboratory
NVLAP	National Voluntary Laboratory Accreditation Program
NVM	nonvolatile memory
NVRAM	nonvolatile RAM
NWA	network analyser
NWPA	Nuclear Waste Policy Act (USA)
OA	office automation
OAM	operations, administration and maintenance
OAM&P	operations, administration, maintenance and provisioning
OATS	open area test site
OBDD	ordered binary decision diagram
OBIC	optical beam induced current(s)
OBIRCH	optical beam induced resistance change
OCR	optical character recognition
OCRWM	Office of Civilian Radioactive Waste Management (USA)
OCT	optical coherence tomography
ODA	Office Document Architecture
ODE	ordinary differential equation
ODMG	Object Data Management Group
ODMR	optical detection of magnetic resonance
ODP	open distributed processing
OEIC	optoelectronic integrated circuit
OEM	original equipment manufacture(r)
OER	oxygen enhancement ratio
OFDCS	optical fibre digital communication system
OFDM	orthogonal FDM
OH	ohmic heating
OHTE	Ohmically Heated Toroidal Experiment
OISF	oxidation induced stacking fault
OLAP	online analysis and processing
OLCR	optical low coherence reflectometer(-try)
OLTP	online transaction processing
OMCVD	organometallic CVD
OMI	optical mode interference
OMT	object modelling technique
OMVPE	organometallic vapour phase epitaxy
ONA	open network architecture
ONO	oxide-nitride-oxide
OO	object-oriented
OOP	object-oriented programming
OPA	optical parametric amplifier
OPAC	online public access catalogue
OPF	optimal power flow
OPGW	optical fibre composite ground wire
OPHF	orbital polarised Hartree-Fock
OPO	optical parametric oscillator
OPW	orthogonal plane wave
OQPSK	offset quadrature phase shift keying
OR	operations research
ORB	object request broker
ORELA	Oak Ridge Electron Linear Accelerator (USA)
ORNL	Oak Ridge National Laboratory (USA)
OS	operating system
OS-EM	ordered subset expectation maximization
OSI	Open Systems Interconnection
OSP	organic solderability preservative
OSS	operations support system
OTA	operational transconductance amplifier
OTDR	optical time domain reflectometry
OTEC	ocean thermal energy conversion
OTF	optical transfer function
OTH	over the horizon
OTS	Orbital Test Satellite
OTSG	once-through steam generator
OZI	Okubo-Zweig-Lizuha (quark model)
PAA	paraazoxyanisole
PABX	private automatic branch exchange
PAC	perturbed angular correlation *or* probably approximately correct
PACS	picture archiving and communication system *or* personal access communication system
PAFC	phosphoric acid fuel cells
PAH	polycyclic aromatic hydrocarbon(s)
PAHR	post-accident heat removal
PAL	phase alternate line *or* programmable array logic
PAM	programmable active memory *or* pulse amplitude modulation
PANDA	polarisation maintaining and absorption reducing
PAP	paraazoxyphenetole
PARS	private advanced radio service
PBF	power bursts facility
PBFA	Particle Beam Fusion Accelerator
PBGA	plastic ball grid array
PBH	planar buried heterostructure
PBL	planetary boundary layer
PBR	pebble bed reactor

PBT	permeable base transistor
PBW	power-by-wire
PBX	private branch exchange
PC	personal computer *or* printed circuit *or* programmable controller
PCA	principal component analysis
PCAC	partially conserved axial currents
PCB	polychlorinated biphenyl *or* printed circuit board
PCES	phase change energy storage
PCI	pellet-cladding interaction *or* Peripheral Component Interconnect
PCILO	perturbative configuration interaction using localised orbitals
PCILOCC	PCILO for crystal calculation
PCM	phase change material *or* pulse code modulation
PCMCIA	Personal Computer Memory Card International Association
PCN	personal communications network
PCRV	prestressed concrete reactor vessel
PCS	personal communication services (systems)
PCTE	Portable Common Tools Environment
PCV	primary containment vessel
PCX	plasma confinement experiment
PD	partial discharge
PDB	planar doped barrier
PDE	partial differential equation
PDEF	physical design exchange format
PDF	probability density (distribution) function
PDH	plesiochronous digital hierarchy
PDLC	polymer dispersed liquid crystal
PDP	plasma display panel
PDT	photodynamic therapy
PDX	Poloidal Divertor Experiment
PE	phase encoded
PEC	photoelectrochemical cell
PECVD	plasma enhanced CVD
PEEK	polyaryletheretherketone *or* polyetheretherketone
PEEL	programmable electrically erasable logic
PEFC	polymer electrolyte fuel cell
PEM	photo-electromagnetic *or* privacy-enhanced mail *or* proton exchange membrane
PEP	Positron Electron Photon (collider, Stanford, USA)
PES	photoelectron spectra (-oscopy)
PET	polyethylene terephthalate *or* positron emission tomography
PETRA	Positron Electron Tandem Ringbeschleuniger Anlage
PF	poloidal field *or* power factor
PFBC	pressurised fluidised bed combustion
PFC	power factor correction
PFM	pulse frequency modulation
PFP	power factor pre-regulator
PFR	Prototype Fast Reactor
PGA	pin grid array
PHIGS	Programmer's Hierarchical Interactive Graphic System
PHS	personal handy-phone system
PHWR	pressurised heavy water reactor
PIC	particle-in-cell
PID	proportional+integral+differential (derivative)
PIN	p-type intrinsic n-type
PIPECO	photoion photoelectron coincidence
PIUS	process inherent ultimately safe
PIXE	photon induced X-ray emission
PL	photoluminescence
PLA	phase locked array *or* programmable logic array
PLBR	Prototype Large Breeder Reactor
PLC	programmable logic control
PLCC	plastic leadless chip carrier
PLD	programmable logic device
PLEX	plant life extension
PLL	phase locked loop
PLT	Princeton Large Torus
PLZT	lead lanthanum zirconate titanate
PM	permanent magnet *or* phase modulation *or* pulse modulation
PMAD	power management and distribution
PMDR	phosphorescence microwave double resonance
PMF	polarisation maintaining fibre
PML	perfectly matched layer
PMMA	polymethylmethacrylate
PMOS	p-channel metal-oxide-semiconductor
PMR	proton magnetic resonance
PMS	pre-main sequence
PMSM	permanent magnet synchronous motor
PN	planetary nebula(e) *or* pseudonoise
PNDO	partial neglect of differential overlap
PNO-CI	pair natural orbital configuration interaction
PNS	Pulsed Neutron Source
PO	physical optics
POL	pair orthogonalised Lowdin
PON	passive optical network
POPAE	protons on protons and electrons
POPOP	phenyl-oxazolyl-phenyl-oxazolyl-phenyl
PORV	power operated relief valve
POS	point of sale
POTS	plain old telephone service
PPB	parts per billion
PPDP/S	Pariser-Parr-Del Bene-Pople/Segal calculations
PPI	plan position indicator
PPM	parts per million *or* pulse position modulation
PPP	Pariser-Parr-Pople
PQFP	plastic quad-flat-pack
PRA	probabilistic risk assessment
PRAM	parallel random access machine
PRDDO	partial retention of diatomic differential overlap
PREPP	Process Experimental Pilot Plant
PRF	pulse recurrence (repetition) frequency
PRIME	positive resist images by dry etching
PRMA	packet reservation multiple access
PRML	partial response maximum likelihood
PRN	packet radio networks
PROLOG	Programming in Logic (language)
PROM	Pockels readout optical modulator *or* programmable ROM
PS	proton synchrotron (CERN)
PSA	probabilistic safety assessment
PSD	power shut-down *or* power spectral density

PSDN	packet switched data network
PSG	phosphosilicate glass
PSK	phase shift keying
PSNR	peak signal-to-noise ratio
PSS	packet switching service *or* power system stabiliser
PSTN	public switched telephone network
PSU	power supply unit
PTC	positive temperature coefficient
PTD	physical theory of diffraction
PTF	polymer thick film
PTFE	polytetrafluoroethylene
PTH	plated through hole
PTM	pulse time modulation
PTT	Posts, Telephones and Telegraphs
PV	photovoltaic
PVC	polyvinyl chloride
PVD	physical vapour deposition
PVDF	polyvinylidene fluoride
PVER	pattern visual evoked response
PVM	Parallel Virtual Machine
PWA	partial wave analysis
PWB	printed wiring board
PWBA	plane wave Born approximation
PWIA	plane wave impulse approximation
PWM	pulse width modulation
PWR	pressurised water reactor
PXI	PCI extensions for instrumentation
PZT	lead zirconate titanate
QA	quality assurance
QAM	quadrature amplitude modulation
QASK	quadrature amplitude shift keying
QBO	quasi-biennial oscillation
QC	quality control
QCD	quantum chromodynamics
QCPM	quadrature continuous phase modulation
QCSE	quantum confined Stark effect
QD	quantum dot
QDMBPT	quasi-degenerate MBPT
QED	quantum electrodynamics
QFP	quad-flat-pack *or* quantum flux parametron
QFSK	quadrature frequency shift keying
QFT	quantum field theory
QGP	quark-gluon plasma
QHD	quantum hadrodynamics
QHE	quantum Hall effect
QMD	quantum molecular dynamics
QMF	quadrature mirror filter
QML	qualified manufacturers list
QORC	quadrature overlapped raised cosine
QoS	quality of service
QOSRC	quadrature overlapped squared raised cosine
QPL	qualified parts (or products) list
QPM	quark-parton model
QPO	quasi-periodic oscillation
QPR	quadrature partial response
QPRS	quadrature partial response signalling
QPSK	quaternary phase shift keying
QRC	quasi-resonant converter
QSO	quasi-stellar object (quasar)
QTAG	Quality Test Action Group
QW	quantum well
QWH	quantum well heterostructure
QWIP	quantum well infrared photodetector
QWITT	quantum well injection transit time
R&D	research and development
RACE	Research and Development in Advanced Communications Technologies in Europe
RAD	ribbon-against-drop
RAID	redundant arrays of inexpensive disks
RAM	radar absorbing material *or* random access memory *or* reliability, availability and maintainability
RAMDAC	random access memory digital/analogue convertor
RAN	radio-area network
RBE	relative biological effectiveness
RBF	radial basis function
RBMK	light water cooled, graphite moderated reactor
RBOC	Regional Bell Operating Company
RBS	Rutherford backscattering
RBSOA	reverse biased safe operating area
RC	resistance-capacitance
RCCB	residual current circuit breaker
RCD	residual current device
RCIC	reactor core isolation cooling
RCS	radar cross-section *or* rapid cycling synchrotron *or* reactor coolant systems
RCTL	resistor-capacitor-transistor logic
RDBMS	relational DBMS
RDS	Radio Data System
RDSS	radio determination satellite service
REA	rod ejection accident
REE	rare earth element(s)
REELS	reflection electron energy loss spectra (-oscopy)
RELP	residual excited linear prediction
REM	reflection electron microscopy *or* rare earth metal(s) *or* rapid eye movement
REMPI	resonance enhanced multiphoton ionisation
RESURF	reduced surface field
RF	radio-frequency
RFI	RF interference
RFIC	RF integrated circuit
RFP	reversed field pinch *or* request for proposals
RFPR	reversed field pinch reactor
RFX	reversed field (pinch) experiment
RG	renormalisation group
RGB	red, green, blue
RGM	resonating group method
RHEED	reflection high-energy electron diffraction
RHET	resonant hot electron transistor
RHF	restricted Hartree-Fock
RHIC	relativistic heavy ion collider
RIA	reactivity initiated accident
RIB	radioactive ion beam
RIBE	reactive ion beam etching
RICH	ring imaging Cherenkov detector
RIE	reactive ion etching
RINDO	Rydberg incomplete NDO
RISC	reduced instruction set computer
RKKY	Rudermann-Kittel-Kasuya-Yosida
RLC	resistance-inductance-capacitance
RLL	run-length limited
RLS	recursive least squares
RLSA	radial line slot antenna
RMS	root-mean-square

RNA	ribonucleic acid
RNS	residue number system
ROC	receiver operating characteristic
ROM	read-only memory
ROV	remotely operated vehicle
ROXNOX	reoxidised nitrided oxide
RPA	random phase approximation
RPAE	RPA with exchange
RPC	resistive plate chamber/counter *or* remote procedure call
RPM	relaxation potential model *or* revolutions per minute
RPV	reactor pressure vessel *or* remote piloted vehicle
RS	Reed-Solomon
RSA	reverse saturable absorber *or* Rivest-Shamir-Adleman
RSCE	reverse short channel effect
RSF	response surface function
RSFQ	rapid single flux quantum
RT	room temperature
RTA	rapid thermal annealing
RTD	resonant tunnelling diode
RTG	radioisotope thermoelectric generators
RTI	road traffic informatics
RTL	resistor-transistor logic *or* register transfer level
RTN	rapid thermal nitridation
RTO	rapid thermal oxidation
RTP	rapid thermal processing
RTT	resonant tunnelling transistor
RTTY	radio teletypewriter *or* remote teletype terminal
RTV	room temperature vulcanizing
RVB	resonating valence bond
RWG	Rao-Wilton-Glisson
S/H	sample and hold
S/N	signal-to-noise
SAA	Systems Application Architecture
SAG	self-aligned gate
SAINT	self-aligned implantation for N^+-layer technology
SAIR	synthetic aperture interferometric radar
SAM	scanning acoustic microscopy *or* scanning Auger microscopy *or* serial access memory
SAMO	simulated ab initio molecular orbitals
SAMOS	stacked gate avalanche injection metal-oxide-semiconductor
SAMPLE	simulation and modelling of profile in lithography and etching
SAN	small-area network
SANS	small-angle neutron scattering
SAR	synthetic aperture radar *or* specific absorption rate
SARSAT	search and rescue satellite aided tracking
SAW	surface acoustic waves *or* self-avoiding walk
SAXS	small-angle X-ray scattering
SBE	super birefringence effect
SBH	strip buried heterostructure
SBLOCA	small-break LOCA
SBS	stimulated Brillouin scattering
SC	switched capacitor
SCADA	supervisory control and data acquisition
SCARA	selective compliance assembly robot arm
SCC	stress corrosion cracking
SCDMA	synchronous code division multiple access
SCE	service creation environment
SCF	self-consistent field
SCFL	source-coupled FET logic
SCH	separate confinement heterostructure
SCL	space charge limited
SCM	subcarrier multiplex(ing)
SCP	service control point
SCPC	single channel per carrier
SCPI	Standard Commands for Programmable Instruments
SCR	silicon-controlled rectifier
SCSI	Small Computer System Interface
SCTF	Slab Core Test Facility
SDB	silicon direct bonding
SDF	synthetic discriminant function
SDFL	Schottky-diode FET logic
SdH	Shubnikov-de Haas
SDH	synchronous digital hierarchy
SDI	selective dissemination of information *or* Strategic Defense Initiative (USA)
SDL	Specification and Description Language
SDLC	synchronous data link control
SDM	space division multiplexing
SDMA	space division multiple access
SDW	spin density wave
SEAM	scanning electron acoustic microscopy
SECAM	sequential colour and memory
SED	stochastic electrodynamics
SEE	single event effect(s)
SEED	self-electrooptic effect device
SEG	selective epitaxial growth
SEI	Software Engineering Institute
SEIG	self-excited induction generator
SEL	surface emitting laser
SEM	scanning electron microscopy
SEMI	Semiconductor Equipment and Material International Association
SEP	somatosensory evoked potential
SERC	Science and Engineering Research Council
SERS	surface enhanced Raman scattering
SETI	search for extraterrestrial intelligence
SEU	single event upset
SEXAFS	surface extended X-ray absorption fine structure
SFE	solar-flare effect
SFG	sum frequency generation
SFL	substrate-fed logic
SFM	scanning force microscopy
SFUR	self-filtering unstable resonator
SGEMP	system generated electromagnetic pulse
SGHWR	steam generating heavy water reactor
SGML	Standard Generalized Markup Language
SGMP	sol-gel microsphere pelletisation
SHF	super-high-frequency
SHG	second harmonic generation
SHOOT	superfluid helium on-orbit transfer
SHR	self-healing rings *or* South Hall Ring (MIT-Bates)
SHS	self-propagating high-temperature synthesis
SHV	super-high votage
SI	semi-insulating *or* Système International
SICOS	sidewall base contact structure

SID Society for Information Display
SIF stress intensity factor
SIL single-in-line
SIMD single instruction, multiple data
SIMOS stacked-gate injection MOS
SIMOX separation by implantation of oxygen
SIMS secondary ion mass spectra (-oscopy)
SIN Swiss Institute of Nuclear Research
SINDO scaled incomplete NDO
SINR signal-to-interference-plus-noise ratio
SIPOS semi-insulating polycrystalline silicon
SIR safe integral reactor *or* signal-to-interference ratio
SIS semiconductor-insulator-semiconductor *or* superconductor-insulator-superconductor
SISAM spectrometer with interference-selective amplitude modulation
SISFET semiconductor-insulator-semiconductor FET
SISO single input, single output
SIT static induction transistor
SLAC Stanford Linear Accelerator
SLALOM semiconductor laser amplifier in a loop mirror
SLAM scanning laser acoustic microscopy
SLC smectic liquid crystal *or* Stanford Linear Collider *or* subscriber loop carrier
SLD strict logical determinacy
SLIA Spiral Line Induction Accelerator
SLIC subscriber line interface circuit
SLM spatial light modulator
SLSF Sodium Loop Safety Facility
SMA surface mount(ed) assembly *or* shape memory alloy
SMATV satellite master antenna television
SMC Small Magellanic Cloud *or* surface mount(ed) component
SMD surface mount(ed) device
SMDS switched multimegabit data service
SME shape memory effect
SME small and medium-sized enterprises
SMES superconductive magnetic energy storage
SMF single mode fibre
SMIF standard mechanical interface
SMOBC solder mask over bare copper
SMPS switched mode power supply
SMQORC staggered modified quadrature overlapped raised cosine
SMSR side mode suppression ratio
SMT surface mount(ed) technology
SN supernova(e)
SNA Systems Network Architecture
SNM special nuclear material
SNMP simple network management protocol
SNR signal-to-noise ratio *or* supernova remnant
SNS spallation neutron source *or* superconducting normal superconducting
SOA safe operating area *or* semiconductor optical amplifier
SOFC solid oxide fuel cells
SOG spin on glass *or* strongly orthogonal geminal *or* sea of gates
SOI silicon on insulator *or* signal of interest
SOIC small outline integrated circuit
SOL scrape-off layers
SONET synchronous optical network
SOP small outline package *or* state of polarisation
SOPPA second-order polarisation propagator approximation
SOR successive over-relaxation *or* synchrotron orbital radiation
SOS silicon on sapphire
SOT small outline transistor
SPA separated pair approximation
SPARC scalable processor architecture *or* Standards Planning and Requirements Committee (of ANSI)
SPC statistical process control *or* stored program control
SPCP single parity check product (code)
SPDT single pole, double throw
SPDT single-point diamond turning
SPE solid phase epitaxy
SPEAR Stanford Positron Electron Asymmetric Ring
SPECT single photon emission computerised tomography
SPICE Simulation Program with Integrated Circuit Emphasis
SPLEED spin polarised low energy electron diffraction
SPM scanning probe microscopy
SPN stochastic Petri net
SPRITE signal processing in the element
SPS Super Proton Synchrotron (CERN)
SPST single pole single throw
SPUDT single-phase unidirectional transducer
SQAM superposed QAM
SQC statistical quality control
SQL Structured Query Language
SQPR staggered quadrature partial response
SQPSK staggered quadrature PSK
SQS self-quenching streamer chamber
SQUID superconducting quantum interference device
SQW single quantum well
SR synchrotron radiation
SRAM static RAM
SREMP source region electromagnetic pulse
SRM switched reluctance motors
SRMCASE symmetry-restricted-multiconfiguration annihilation of single excitations
SRO short-range order
SRS stimulated Raman scattering
SRV safety release valve
SS spread spectrum
SS-TDMA satellite switched TDMA
SS7 Signalling System No.7
SSB single sideband
SSBW surface skimming bulk wave
SSC sudden storm commencement *or* Superconducting Super Collider
SSCR spectrum shift controlled reactor
SSFL Schottky-barrier coupled Schottky-barrier gate FET logic
SSFLC surface stabilised ferroelectric liquid crystal
SSI small scale integration
SSMA spread spectrum multiple access

SSNTD	solid-state nuclear track detector
SSR	subsynchronous resonance
SST	sea surface temperature *or* supersonic transport or super self-aligned technology
SSV	structured singular value
STAP	space time adaptive processing
STATCOM	static compensator
STD	salinity-temperature-depth *or* subscriber trunk dialling
STEC	solar thermal energy conversion
STEM	scanning transmission electron microscopy
STEP	Standard for Exchange of Product Data
STI	scientific and technical information *or* shallow trench isolation
STL	Schottky transistor logic *or* Standard Template Library
STM	scanning tunnelling microscopy *or* synchronous transfer mode
STN	super twisted nematic
STO	Slater-type orbitals
STOL	short take-off and landing
STP	Slater-transfer Preuss
STS	scanning tunnelling spectra(-oscopy)
SURMAC	surface magnetic confinement
SUSY GUT	supersymmetric grand unified theory
SVC	static VAr compensator
SVD	singular value decomposition
SW	short-wave
SWAMI	sidewall masked isolation
SWAP	synchronous wireless access protocol
SWEAT	standard wafer-level electromigration accelerated test
SWEPP	Stored Waste Examination Pilot Plant
SWNT	single wall nanotube
SWR	sodium water reactor *or* standing wave ratio
SXAPS	soft X-ray appearance potential spectra (-oscopy)
SXLS	Superconducting X-ray Lithography Source
T/H	track and hold
T/R	transmit/receive
TA	transverse acoustic
TAB	tape automated bonding
TACS	Total Access Communications System
TASI	time assignment speech interpolation
TAT	transatlantic telephone cable
TBBA	terephthal-butylaniline
TBDF	transborder data flow
TCAD	technology CAD
TCAS	traffic alert and collision avoidance system
TCE	temperature coefficient of expansion
TCM	trellis-coded modulation
TCNE	tetracyanoethylene
TCNQ	tetracyanoquinodimethane
TCP/IP	Transport Control Protocol/Internet Protocol
TCR	temperature coefficient of resistance *or* thyristor-controlled reactor
TCSC	thyristor-controlled series compensation (capacitor)
TCXO	temperature compensated crystal oscillator
TDD	ternary decision diagram
TDD	time division duplex
TDDB	time dependent dielectric breakdown
TDF	Technology Demonstration Facility *or* transborder data flow
TDHF	time dependent Hartree-Fock
TDI	time delay and integration
TDM	time division multiplex(ing)
TDMA	time division multiple access
TDMF	time dependent mean field theory
TDPAC	time differential PAC
TDR	time domain reflectometry
TDRSS	tracking and data relay satellite system
TDS	thermal desorption spectra (-oscopy)
TE	transverse electric
TEA	transversely excited atmosphere
TED	transferred electron device
TEGFET	two-dimensional electron gas FET
TEM	transmission electron microscopy *or* transverse electromagnetic
TEO	transferred electron oscillator
TEOS	tetraethylorthosilicate
TETRA	trans-European trunked radio
TEXT	Texas Experimental Tokamak
TF	toroidal field
TFCX	Toroidal Fusion Core Experiment
TFEL	thin film electroluminescent
TFSOI	thin film silicon on insulator
TFT	thin film transistor
TFTR	Tokamak Fusion Test Reactor
TGA	thermogravimetric analysis
TGFB	triglycine fluoroberyllate
TGS	triglycine sulphate
TGSe	triglycine selenate
THA	track-and-hold amplifier
THD	total harmonic distortion
THF	tremendously high frequency
THG	third harmonic generation
THORP	Thermal Oxide Reprocessing Plant
THORS	Thermal Hydraulic Out-of-Reactor Safety Facility
THTF	Thermal Hydraulic Test Facility
TIA	Telecommunications Industry Association
TID	travelling ionospheric disturbance
TIG	tungsten inert gas
TIL	two-interdigitation level
TINA	Telecommunications Information Network(ing) Architecture
TISSS	Tester-Independent Software Support System
TJS	transverse junction stripe
TLD	thermoluminescent dosimeter (-ry)
TLM	transmission line matrix
TM	transverse magnetic
TMAH	tetramethyl ammonium hydroxide
TMC	test module coil
TMHR	tandem mirror hybrid reactor
TMMC	tetramethylammonium manganese chloride
TMN	telecommunications management network
TMR	tandem mirror reactor
TMS	truth maintenance system
TMTSF	tetramethyltetraselenafulvalene (-inium)
TMTTF	tetramethyltetrathiafulvalene (-inium)
TMX-U	Tandem Mirror Experiment-Upgrade
TNS	The Next Step
TO	transverse optical

TOF	time-of-flight
TOFMS	time-of-flight mass spectra
TOP	Technical Office Protocol *or* transient overpower accident
TPAD	time differential perturbed angular distribution
TPC	time projection chamber
TPD	temperature programmed desorption
TPP	thermal power plant
TPS	test program(me) set
TPTF	Two Phase Flow Test Facility
TPV	thermophotovoltaic
TQFP	thin quad flat pack
TQM	total quality management
TR3	time-resolved resonant Raman (spectra (-oscopy))
TRAPATT	trapped plasma avalanche triggered transit
TRD	transition radiation detector
TREAT	Transient Reactor Test Facility
TRM	thermoremanent magnetisation
TRRR	time-resolved resonant Raman (spectra (-oscopy))
TRU	transuranic (waste)
TRV	transient recovery voltage
TSC	thermally stimulated currents *or* totally self checking
TSD	thermally stimulated desorption
TSEE	thermally stimulated exo-electron emission
TSeF	tetraselenafulvalene (-inium)
TSeT	tetraselenatetracene
TSIC	thermally stimulated ionic currents
TSMA/PCD	tone sense multiple access/partial collision detection
TSOP	thin small-outline package
TSP	travelling salesman problem
TSR	terminate and stay resident
TSTA	Tritium Systems Test Facility
TTC	telemetry tracking and command
TTF	tetrathiafulvalene (-inium)
TTL	transistor-transistor logic
TTMP	transit time magnetic pumping
TTT	temperature-time-transformation *or* tetrathiatetracene
TTY	teletype terminal
TUCA	transient undercooling accident
TUCOP	transient undercooled overpower accident
TUNNETT	tunnel transit time
TV	television
TVRO	TV receive only
TW	travelling wave
TWA	travelling wave amplifier
TWOA	travelling wave optical amplifier
TWT	travelling wave tube
TWTA	TWT amplifier
TXRF	total reflection X-ray fluorescence
UART	universal asynchronous receiver transmitter
UBR	unspecified bit rate
UCHF	uncoupled Hartree-Fock
UCN	ultra-cold neutrons
UDP	user datagram protocol
UHF	ultra-high frequency *or* unrestricted Hartree-Fock
UHPS	underground hydroelectric pumped storage
UHV	ultra-high voltage
UIMS	user interface management system
UJT	unijunction transistor
UKAEA	United Kingdom Atomic Energy Authority
ULA	uncommitted logic array
ULF	ultra-low frequency
ULSI	ultra-large scale integration
UMD	unitised microwave devices
UML	Unified Modeling Language
UMTS	universal mobile telecommunication system
UNI	user-network interface
UPFC	unified power flow controller
UPS	ultraviolet photoelectron spectra (-oscopy) *or* uninterruptible power supply
UPT	universal personal telecommunication
URL	uniform resource locator
US	ultrasonic
USART	universal synchronous/asynchronous receiver transmitter
UTD	uniform theory of diffraction
UTP	unshielded twisted pair
UUT	unit under test
UV	ultraviolet
VACSY	variable angle correlation spectroscopy
VAD	vapour-phase axial deposition
VAN	value-added network
VANS	VAN services
VAWT	vertical axis wind turbine
VB	valence bond
VBL	vertical Bloch line
VBR	variable bit rate
VC	virtual circuit *or* Vapnik-Chervonenkis
VCCS	voltage-controlled current source
VCO	voltage-controlled oscillator
VCR	video cassette recorder
VCSEL	vertical cavity surface emitting laser
VCVS	voltage-controlled voltage source
VCXO	voltage-controlled crystal oscillator
VDM	vector dominance model *or* Vienna Development Methodology
VDMOS	vertical double diffused MOS
VDSL	very high-speed digital subscriber line
VDT	visual display terminal
VDU	visual display unit
VDW	van der Waals
VER	visual evoked response
VFD	vacuum fluorescent display *or* variable-frequency drive
VFO	variable-frequency oscillator
VGA	Video Graphics Array
VGF	vertical gradient freeze
VHDL	VHSIC HDL
VHF	very high frequency
VHPIC	very high-performance integrated circuit
VHSIC	very high-speed integrated circuit
VHSOL	very high-speed optical loop
VHV	very high voltage
VI&P	visual, intelligent and personal (communications)
VIPER	verified processor for enhanced reliability
VISA	Virtual Instrument Software Architecture
VJFET	vertical junction FET
VLBI	very long base line interferometry
VLBR	very low bit rate
VLC	variable length code

VLF	very low frequency
VLIW	very long instruction word
VLSI	very large scale integration
VM	virtual machine
VMEbus	versatile modular E-bus
VMOS	vertical channel MOS
VMS	Virtual Management System
VNA	vector network analyser
VOC	volatile organic compound
VoD	video on demand
VOR	VHF omnidirectional range
VP	virtual path
VPE	vapour phase epitaxy
VPN	virtual private network
VQ	vector quantisation
VR	virtual reality
VRAM	video RAM
VRC	visual record computer
VRML	Virtual Reality Modeling Language
VS	virtual storage
VSAT	very small aperture terminals
VSB	vestigial sideband
VSEPR	valence shell electron pair repulsion
VSI	voltage source invertor
VSOP	very small-outline package
VSP	vertical seismic profiling
VSS	variable structure systems
VSWR	voltage standing wave ratio
VTOL	vertical take-off and landing
VTR	video tape recorder *or* voltage transformation ratio
VUV	vacuum ultraviolet
VVER	water moderated water cooled reactors
VVVF	variable voltage, variable frequency
VXI	VME extensions for instrumentation
WAAS	wide-area augmentation system
WAN	wide-area network
WARC	World Administrative Radio Conference
WASP	WSI associative string processor
WATS	wide-area telecommunications service
WAXS	wide-angle X-ray scattering
WDF	wave digital filter
WDM	wavelength division multiplex(ing)
WDMA	wavelength division multiple access
WECS	wind energy conversion system
WHT	Walsh-Hadamard transform
WIMP	weakly interacting massive particle *or* windows, icons, mice, pull-down menus
WIP	work in progress
WIPO	World Intellectual Property Organisation
WIPP	Waste Isolation Pilot Plant
WKB	Wentzel-Kramers-Brillouin
WLAN	wireless LAN
WLL	wireless local loop
WORM	write once, read many times
WP	word processing
WR	Wolf-Rayet
WSI	wafer scale integration
WWER	water moderated water cooled reactors
WWW	World Wide Web
WYSIWYG	what you see is what you get
WZW	Wess-Zumino-Witten
XANES	X-ray absorption near edge structure
XCT	X-ray computerised tomography
XLPE	cross-linked polyethylene
XLS	X-ray Lithography Source
XOR	exclusive OR (logic)
XPD	cross-polarisation discrimination
XPS	X-ray photoelectron spectra
XRD	X-ray diffraction
XTEM	cross-sectional transmission electron microscopy
XUV	X-ray-ultraviolet
YAG	yttrium aluminium garnet
YIG	yttrium iron garnet
YM	Yang-Mills
YSO	young stellar object(s)
YSZ	yttria-stabilised zirconia
YTO	YIG tuned oscillator
ZAMS	zero-age main sequence
ZBLA	zirconium barium lanthanum aluminium fluoride
ZBLAN	zirconium barium lanthanum aluminium sodium fluoride
ZBLANP	zirconium barium lanthanum aluminium sodium lead fluoride
ZCS	zero-current switching
ZEKE	zero kinetic energy
ZGS	zero gradient synchrotron
ZIF	zero insertion force
ZMR	zone melting recrystallisation
ZPPR	zero-power plutonium reactor
ZRC	zero-field cooling(-ed)
ZTP	Z toroidal pinch
ZVS	zero-voltage switching
ZVT	zero-voltage transition

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AOI *see automatic optical inspection*
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artificial vision *see computer vision*

asdic *see sonar*

ASIC *see application specific integrated circuits*

ASK *see amplitude shift keying*

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CBT *see computer based training*

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CCD imagers *see CCD image sensors*

CCII *see current conveyors*

CCIR standards *see standards*

CCTV *see closed circuit television*

CCVS *see active networks*

CD-ROM publication *see optical publishing*

CD-ROM searching *see information retrieval*

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CML *see current-mode logic*

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CSMA *see carrier sense multiple access*

CSMA/CD *see carrier sense multiple access*

CSP *see communicating sequential processes*

CSP lasers *see semiconductor lasers*

CT-2 telephone systems *see cordless telephone systems*

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Curie point *see Curie temperature; ferroelectric Curie temperature*

Curie temperature
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Darlington transistors *see bipolar transistors*

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DASD *see magnetic disc storage*

DAT *see digital audio tape*

data abstraction *see data structures*

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EM waves *see electromagnetic waves*

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EMG *see electromyography*

EMI *see electromagnetic interference*

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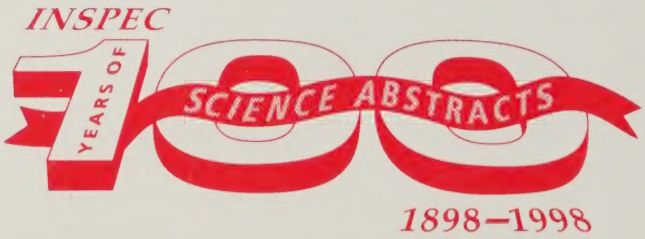

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